

ABSTRACT

Affords a method of manufacturing III nitride single crystal whereby yields from the source materials are high and the crystal growth rate is advanced.

A III nitride single-crystal manufacturing method in which a liquid layer (3) of 200 μm or less thickness is formed in between a substrate (1) and a III nitride source-material baseplate (2), and III nitride single crystal (4) is grown onto the face (1s) on the liquid-layer side of the substrate (1). Herein, the substrate (1) in at least a superficial layer (1a) on the liquid-layer side may be formed of a III nitride single crystal, while the III nitride source-material baseplate (2) can be formed of a III nitride polycrystal. Further, the substrate (1) in at least a superficial layer (1a) on the liquid-layer side, and the III nitride source-material baseplate (2) can be formed of a III nitride single crystal, while the face (1s) on the liquid-layer side of the substrate (1) can be made a III-atom surface, and the face (2s) on the liquid-layer side of the III nitride source-material baseplate (2) can be made a nitrogen-atom surface.